

Title (en)
HANDHELD MANUAL ENERGY ACCUMULATION YO-YO

Title (de)
JO-JO MIT MANUELLER ENERGIEAKKUMULATION

Title (fr)
YO-YO À ACCUMULATION D'ÉNERGIE MANUELLE PORTATIF

Publication
EP 3037146 A4 20170419 (EN)

Application
EP 15819778 A 20150117

Priority
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Abstract (en)
[origin: EP3037146A1] The present invention discloses a hand-held yo-yo ball capable of manually storing energy, comprising two rotating bodies and a connecting shaft, where each rotating body comprises a disk body and a shell; one disk body is internally provided with a clutch mechanism, the other disk body is internally provided with an energy storage mechanism; two ends of the connecting shaft are respectively connected with the clutch mechanism and the energy storage mechanism; the rotating body at the end where the clutch mechanism is located is manually rotated, energy is stored in the energy storage mechanism, then the meshing state of the clutch mechanism is manually removed, so that the energy storage mechanism releases the energy to drive the two rotating bodies to rotate synchronously. In this way, the yo-yo ball can be rotated without throwing a ball body of the yo-yo ball by a rope. Even if the rope is too short, the ball body can rotate at high speed after being thrown down, which is not affected by an acceleration region after the ball body is thrown down. Therefore, even though a shorter player may enjoy playing with the yo-yo ball to the fullest, and complete various fancy moves. Requirements of players at different ages and different heights can be met. Compared with an existing yo-yo ball, the hand-held yo-yo ball capable of manually storing energy increases a new operation mode and a new playing method, is more fun, and more diversified in playing methods.

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Citation (search report)
• [A] CN 203447754 U 20140226 - GUANGDONG ALPHA ANIMATION & CULTURE CO LTD, et al
• [A] DE 29815344 U1 19981112 - HOO IN TRADING CO [KR]
• [A] US 2007026762 A1 20070201 - MCPHEE BENJAMIN J [AU]
• [A] KR 20070103599 A 20071024 - JIN SUN OU [KR]
• [A] CN 2902385 Y 20070523 - GUANGYIFENG INVEST CO LTD SHAN [CN]
• See references of WO 2016061917A1

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